

## CLAIMS

1. A honeycomb filter for purifying exhaust gases which has a structure in which:

5        a plurality of rectangular columnar porous ceramic members are combined with one another through a sealing material layer to constitute a ceramic block, each of the above-mentioned rectangular columnar porous ceramic member comprising a number of through holes that are placed in parallel with one another  
10       in the length direction with partition wall interposed therebetween;

      a sealing material layer is also formed on a circumference portion of said ceramic block; and

      said partition wall which separates said through holes  
15       functions as a filter for collecting particulates,

      wherein, on a cross section perpendicular to the length direction of said porous ceramic member of said ceramic block, the maximum width  $L$  (mm) of the crisscross portion of said sealing material layer is 1.5 to 3 times greater than the minimum width  
20       1 (mm) of said sealing material layer.

2. The honeycomb filter for purifying exhaust gases according to claim 1,

      wherein the outer circumferential face in the length  
25       direction has a curved face.

3. The honeycomb filter for purifying exhaust gases according to claim 1 or 2,

      wherein on a cross section perpendicular to the length  
30       direction of the porous ceramic member of the ceramic block, the maximum width  $L$  (mm) of the crisscross portion of said sealing material layer is 1.5 to 3 times greater than the minimum width 1 (mm) of said sealing material layer, with respect to the crisscross portions of all the sealing material layer.

4. The honeycomb filter for purifying exhaust gases according to any one of claims 1 to 3,  
wherein a catalyst supporting film is applied to the porous ceramic member.
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5. The honeycomb filter for purifying exhaust gases according to any one of claims 1 to 4,  
wherein a catalyst is applied to the porous ceramic member.
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6. The honeycomb filter for purifying exhaust gases according to any one of claims 1 to 5,  
wherein a catalyst supporting film is applied to the sealing material layer.
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7. The honeycomb filter for purifying exhaust gases according to any one of claims 1 to 6,  
wherein a catalyst is applied to the sealing material layer.